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WO 2005/054338 A1

(54) Title: A SWITCHABLE SELF-DOPED POLYANILINE

(57) Abstract: A substituted polyaniline whose self-doped state can be controlled via complexation between boronic acid groups along the backbone with D-fructose in the presence of fluoride is described. For the first time, this allows the formation of a water-soluble, self-doped conducting polymer under the polymerization conditions. In turn this facilitates the growth of polyaniline over a wider pH range